



2009

# Regolith Excavation Challenge



A Lunar ISRU Robotics Competition

<http://regolith.csewi.org>

October 17-18, 2009  
NASA Research Park  
Moffett Field, CA



*Empirical Systems*  
A E R O S P A C E

The 2009 Regolith Excavation Challenge is a national prize competition under NASA Centennial Challenges to promote the development of new technologies to excavate lunar regolith. Excavation is a necessary first step towards lunar in-situ resource utilization (ISRU), and the unique physical properties of lunar regolith make excavation a difficult technical challenge. Advances in lunar regolith excavation have the potential to contribute significantly to the nation's space exploration operations. Teams will compete to build the autonomous and mobile excavator that can extract the most simulated lunar regolith within power, mass, and time constraints. Prize funding is provided by the NASA Centennial Challenges program.

The Regolith Excavation Challenge will be open to the public with no admission fee. There will be exhibits and speakers focused on STEM education, robotics, and space exploration topics. The competition attempts will be taking place at building B503, located in the NASA Research Park at Moffett Field.

Visit the web site for details.

The anticipated schedule is as follows:

**October 17, 2009**

7:30 AM - 8:30 AM; Team Check-in  
(pre-registration required)

8:30 AM - 5:00 PM; Competition Attempts

**October 18, 2009**

7:30 AM - 5:00 PM; Competition Attempts

**\$750,000**

Prize Funding Provided by  
NASA Centennial Challenges

